

Date: Sat, 1 Oct 94 23:09:10 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: List
Subject: Info-Hams Digest V94 #1084
To: Info-Hams

Info-Hams Digest Sat, 1 Oct 94 Volume 94 : Issue 1084

Today's Topics:

 Amateur Radio: Elmers List Info and Administrivia
 Amateur Radio: Elmers List Quick-Search Index
 Courtesy In Amateur Radio
 FCC forms wireless division
 Interference from computer causing receive problems
 orbs\$273.21.amsat

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sat, 1 Oct 1994 11:00:15 GMT
From: pschleck@gonix.com (Paul W Schleck KD3FU)
Subject: Amateur Radio: Elmers List Info and Administrivia

Posted-By: auto-faq 3.2.1.2
Archive-name: radio/ham-radio/elmerns/admin
Revision: 1.9 08/28/94 11:22:19
Changes: Moved from unomaha.edu to gonix.com

This administrivia file and the companion Amateur Radio Elmers Resource
Directory are intended for non-commercial distribution via Usenet. Any
other uses, please E-mail for permission.

[Special note: My E-mail addresses have changed, reflecting a move to
Greater Omaha Public Access Unix, which was motivated by a desire to
seek a stable site for the Elmers List for some time to come. See my
signature below for the new addresses. My old E-mail addresses, at the

University of Nebraska at Omaha, will probably work for the foreseeable future, but are not guaranteed.]

A Brief Historical Overview:

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If there is any one constant in the changing state of the communications art, it is that "Hams" (Amateur Radio Operators) have always been on the forefront of it. Rumors abound where the term "Ham" came from. Some of the more amusing are described in the list of Frequently Asked Questions for this newsgroup.

Regardless of origin of the name, a "Ham" is universally recognizable as one who experiments in radio and communications.

Whether it be constructing a low-power CW radio with vacuum tubes, or designing TCP/IP packet networks, such experimentation has historically spilled over into the mainstream such as was the case with Edwin Armstrong, who developed the regenerative oscillator and FM radio, or General Curtis LeMay (W6EZV) who was instrumental in making Single-Sideband the communications standard for the Strategic Air Command (1947-1992, now reorganized into a joint command called USSTRATCOM) and eventually the U.S. Air Force. Although packet-switching techniques originated from DARPA (Defense Advanced Research Projects Agency) and the ARPANet, no one can deny the tremendous influence that amateurs have had in demonstrating the viability of TCP/IP and AX.25 communications via radio links. The efforts of AMSAT (the Amateur Satellite Corporation), including the development of many ham satellites and the low-orbiting Microsats (communications satellites no bigger than a breadbox that use store-and forward packet techniques), have certainly advanced the state-of-the-art in communications, one of the defined purposes of the Amateur Radio Service, as recognized by international treaty.

Since in many cases hams are writing "the book", there is often no "book" or other established reference for a beginner to refer to. Traditionally, information has been passed on from ham to ham via word-of-mouth. Like many of the traditional crafts, a variation of the Master-Apprentice system has emerged, the Elmer-Novice relationship. Called "Elmers" because they are usually older and wiser, having the benefit of many years in the hobby, including several failed projects, and an electric shock or two, they have traditionally been the mainstay of amateur radio, and the source of many new hams, particularly those interested in working on emerging technologies.

Even more importantly, Elmers provided an outlet for the impatient newcomer who wanted "to know everything, and right away." Faced with such a request, a good Elmer will smile and proceed to lead the novice

through some project or operating experience. Several hours, days, or weeks later, the novice would have his answers, but would have earned them. Even better, the sense of accomplishment would boost the novice's confidence and nudge him or her down the road to being a model, experienced ham operator.

Many present hams feel that such an experience is missing today. In today's hustle-bustle world, the response to such natural curiosity and desire to learn is, more often than not, "I'm too busy" or "RTFM." As a result, the quality of new hams declines and the knowledge and operating habits they develop in their first formative months and years leave much to be desired. And the very same hams who claim that they "can't understand the new generation" also, in almost the same breath, lament about the "decline of amateur radio."

What is an Elmer today?

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An Elmer today is of any age, male or female, who has some expertise and is willing to share it with beginners. Elmers don't even need to be licensed amateurs, just people with knowledge in some area of electronics or communications technology.

What is a Usenet Elmer?

+++++

With the ever-widening scope of the Internet, and the amateur radio newsgroups on Usenet, the potential for Elmers to share their knowledge to a wide audience has never been greater. To that end, I have started to maintain a list of such Elmers. Volunteers need only send me their name, E-mail address, and area of expertise. I have set up an administrivia mailbox for this purpose (elmers-request@gonix.com, the default Reply-To: of this message).

Those desiring a more extensive list, or who need more specific assistance, are encouraged to contact Rosalie White, WA1STO, Educational Services Manager at the American Radio Relay League, 225 Main St., Newington, CT 06111 or via electronic mail addressed to rwhite@arrl.org.

How may I obtain the latest copy of the Elmers List?

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There are currently 7 ways of obtaining the Elmers List. Any site at least reachable by Internet E-mail can use options 3 or 4:

1. Usenet News: The latest copy of the list can be found in the companion postings to this message, "Amateur Radio: Elmers Resource

Directory [A-M]" and "Amateur Radio Elmers Resource Directory [N-Z]." Since the list is cross-posted to rec.radio.amateur.misc, rec.radio.info, rec.answers, and news.answers on the 1st of each month, with an expiration date 6 weeks into the future, there should always be a copy available at most news sites. Check your newsreader documentation for information about reading previously-read articles.

2. Anonymous FTP: If your site is directly connected to the Internet, you may retrieve the latest copy via File Transfer Protocol (FTP) from the following sites:

```
ftp.cs.buffalo.edu  /pub/ham-radio/elmers*
rtfm.mit.edu       /pub/usenet/news.answers/radio/ham-radio/elmers/
```

3. Mailing-List: Since the list is cross-posted to rec.radio.info, the latest copy may be obtained from the mailing-list gateway for that newsgroup (along with many other informational articles about radio) when it is published each month. To subscribe, send E-mail to:

```
listserv@ucsd.edu
```

and in the BODY (not the Subject) of the message, write:

```
subscribe radio-info
```

The server may not be able to determine your return address. In that case write:

```
subscribe radio-info (your E-mail address)
```

You should get an acknowledgement very shortly.

4. Mail-Server: If you don't want to read through the entire gateway of rec.radio.info, or want a copy of the list right away, send E-mail to:

```
mail-server@rtfm.mit.edu
```

and in the BODY (not the Subject) of the message, write:

```
send usenet/news.answers/radio/ham-radio/elmers/admin
send usenet/news.answers/radio/ham-radio/elmers/index
send usenet/news.answers/radio/ham-radio/elmers/list/a-m
send usenet/news.answers/radio/ham-radio/elmers/list/n-z
send usenet/news.answers/radio/ham-radio/elmers/diff
```

and the latest copy of the list should be sent to you E-mail within 24 hours (the mail-server uses batch priority to reduce system demand).

The last three services are experimental. I'm not terribly familiar with them, and cannot offer much technical support regarding their use. (I'd appreciate feedback on whether or not you find them useful, though.)

5. Internet Gopher: The latest copy of the list should be available from the following Gopher sites, all at standard port 70:

```
cc1.kuleuven.ac.be
jupiter.sun.csd.unb.ca
gopher.univ-lyon1.fr
ftp.win.tue.nl
gopher.win.tue.nl
```

see also comp.infosystems.gopher

6. World-Wide Web (WWW): The latest copy of the list should be available from the following WWW site:

URL: <http://www.cis.ohio-state.edu:80/hypertext/faq/usenet>

under pages:

```
radio/ham-radio/elmers/admin
radio/ham-radio/elmers/index
radio/ham-radio/elmers/list/a-m
radio/ham-radio/elmers/list/n-z
radio/ham-radio/elmers/diff
```

see also comp.infosystems.www

7. Wide-Area Information Service (WAIS): The latest copy of the list should be available from the WAIS server at rtfm.mit.edu (standard port 210) in database "usenet."

see also comp.infosystems.wais

How may I contribute to the Elmers List?

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By using this resource, you are benefitting the net by obtaining assistance in the fastest and most efficient way possible. By volunteering to appear on this list, you are contributing to the good reputation of the radio-related newsgroups.

Thanks to all the volunteer Elmers, as well as courteous list users, for making this service a success.

--

73, Paul W. Schleck, KD3FU

pschleck@gonix.com (personal mail)

elmers-request@gonix.com (Elmers List administrivia)

Date: Sat, 1 Oct 1994 11:00:19 GMT

From: pschleck@gonix.com (Paul W Schleck KD3FU)

Subject: Amateur Radio: Elmers List Quick-Search Index

Posted-By: auto-faq 3.2.1.2

Archive-name: radio/ham-radio/elmers/index

Quick Search Index by Subject:

(Note: This index is not necessarily all-inclusive and some Elmers are listed more than once.)

AMATEUR RADIO EMERGENCY SERVICE
(ARES)/RADIO AMATEUR CIVIL
EMERGENCY SERVICE (RACES)

Botterell (Networks in Emergency
Management Mailing List)
Chilton (EMA Radio Officer)
Engelhausen (RACES Bulletins)
Fyodorov (Russia)
Humphries (ex-Asst. EC)
Magid
Stader (EMAS SEC)
Wilson

AMATEUR TELEPRINTER OVER RADIO
(AMTOR)/PACKET TELEPRINTER OVER
RADIO (PACTOR)/RADIO TELETYPE (RTTY)

Battles
Doane
Feeney (PACTOR)
Freeman, J (AMTOR and PACTOR)
Graham, P
Reynolds (ARQ and FEC modes)
Richards
Sayer (also decoding CHU's

MAILING LISTS

Ackerman (TAPR Net-SIG)
Bellville (First Contact Newsletter)
Botterell (Networks in Emergency
Management)
Engelhausen, et al (AA4RE Packet
BBS)
Doddell (Land-Mobile Radio,
MARS Members)
Ehrlich (Many, see full entry)
Freeman, M (ACC Equipment)
Knapp, et al (Iowa State Elmers)
Prescott (Antique and Older
Tube Equipment)
Meredith (PBBS Bulletin Forwarding,
F6FBB Packet BBS)
Nerenberg (DX)
Schleck, et al (College Clubs)
Wier (Motorola HC11/HC16 and ICOM)
Williamson (Many, AMSAT-related)

MEDIUM FREQUENCY (MF, 160 meters)

Freeman
Harris

ASCII time code)

Zurn

AMERICA ON-LINE

Stader (Host,
Ham Radio Club forum)

AMERICAN RADIO RELAY LEAGUE (ARRL)

Battles (QST Features Editor)
Bloom (ARRL HQ Postmaster,
QEX Editor)
Doane (CT SM)
Elmore (CO TC)
Hare (Laboratory Manager)
Jahnke (VEC Manager)
Lau (Technical Editor)
Redding (Educational Advisor)
Sefranek (EMAS TA)
Stader (EMAS SEC)
Turner (Volunteer Counsel)
Wilson (SCV SM)

ANTENNAS

Brewer (wire HF)
Billson (HF)
Brubaker (HF)
DePolo (including VHF/UHF)
Elmore
Freeman, J (wire HF and 160m)
Graham, J (wire HF for
apartments)
Halbert (simple designs)
Harris
Hill (Mobile, including HF)
Humphries (VHF and multi-band
wire arrays)
Kulyov (HF, especially 160 and
80m)
Myers (and transmission
lines)
Ornitz (including computer
modelling)
Potter
Reynolds
Rymell

MICROWAVE

Graham, P (1.2 Ghz repeaters)
Hammill
Jahnke (SSB/CW SHF Contesting)
Lau (Transverters up to
24 Ghz)
Sargent (3, 5, and 10 Ghz)
van Vliet (including Power
Amplifiers, Low-Noise Amplifiers,
and Mixers)

MILITARY AFFILIATE RADIO SYSTEM (MARS)

Doane (Navy)
Dodell (Air Force, Mailing List)
Miller (Air Force)
Monson (Army)
Sargent (Army)
Schildt (Army MARS HQ Internet/
Milnet Contact and Registration
Service)
Taylor (Air Force)
Welch, J (Navy/Marine Corps)
Welch, V (Navy/Marine Corps,
list of MARS members on the
Internet, tentative BBS
conference)

MOBILE

Carruth (FM and HT's)
Hare (RFI issues)
Hill (including HF)
Humphries
Keller (HF)
Salmon (Maritime)
Sargent
Salyzyn (HF CW)

NATIONAL TRAFFIC SYSTEM (NTS)

Doane
Elmore
Salyzyn (Canada)

Salnick
Salyzyn
Sefranek
Silva
Standerfer
Stine (wire HF)
Stockton
Taylor
Zurn (wire HF)

ANTIQUÉ AND OLDER EQUIPMENT

Brewer (40's-70's)
Keys (including HF and CW)
Prescott (Mailing List)
Moore, T (VHF)
Paperman (Manuals, Service
Information, and Literature)
Standerfer
Turner (including Kenwood and
Ten-Tec)

APPLE MACINTOSH COMPUTER

Braun
Carlson (Macintosh Hamstacks)
Ehrlich (FTP archive)
Stader (List of Macintosh
Amateur Radio Software)
Van Peurseem (Savant)

BATTERIES

Hammill (Sealed Lead-Acid)
Meyers
Stuart (including Ni-Cads)

CALLSIGN DATA/NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)

Carruth
Lloyd (including QRZ! Ham-Radio
CDROM)

CIVIL AIR PATROL (CAP)

Carlson
Moore, J

Sargent
Zurn (Europe)

NOVICE/TECH INSTRUCTION

Bellville (First Contact Newsletter)
Billson
Bono (AutoExam/AutoCW)
Carlson (Macintosh Hamstacks)
Chilton
Knapp, et al
Larson
Magid
Maia
Myers (including basic
electronics and communications
theory)
Redding
Reeves
Salmon
Stader

PACKET

Ackerman (including TCP/IP,
TAPR, Net-SIG, and Kantronics
D4-10 19.2kBaud Radio Modems)
Angus (TCP/IP, NOS, UUPC,
Tnet, and SNEWS, SCO Xenix
TCP/IP and Sendmail, IP
Coordinator for CA - LA
County subnet)
Battles (AX.25 and TCP/IP)
Bloom (IP Coordinator for
Connecticut subnet)
Braun (TCP/IP, Macintosh, IP
Coordinator for WNY subnet)
Cole (TCP/IP and NOS)
Dodell (IP Coordinator for
Arizona subnet)
Elmore (including TCP/IP)
Engelhausen, et al (AA4RE Packet
BBS and Mailing List)
Freeman, J (KAM, TCP/IP, NOS for
DOS and OS/2)
Fyodorov (AX.25 and TCP/IP in
Russia)
Graham, J (KAMterm)

COLLEGE CLUBS

Edwards
Knapp, et al
Schallehn
Schleck (et al, Mailing List)

COMMERCIAL EQUIPMENT

Dodell (Mailing List)
Richards
Wier (ICOM Mailing List)

CW (MORSE CODE)

Bono (AutoCW)
Elmore
Fyodorov (including Cyrillic)
Keys (including CWIST HF CW Net)
Kulyov
Rosenfeld
Salyzyn
Silva
Squicciarini
Stine
Stockton
Tescher (Computer Programs)
Zurn (including European abbreviations)

DIGITAL SIGNAL PROCESSING (DSP)

Bloom
Edwards
van Vliet (Filters, including Integrated, Distributed, Lumped, and Active)

EQUIPMENT TESTING/TROUBLESHOOTING

Billson
Brewer (Tube Gear)
Freeman, J (PC ISA Bus)
Hare (ARRL Laboratory Manager)
Myers
Ornitz (Instrumentation)
Paperman (Manuals, Service)

Graham, P (VHF)

Knapp, et al

Meredith (AZ Packet Coordinator, PBBS Bulletin Forwarding Mailing List, F6FBB Packet BBS Mailing List)

Nielsen (TAPR)

Reynolds (including TCP/IP over HF)

Salyzyn (Canadian)

Sargent

Sayer (VHF)

Schallehn (Kantronics)

Stader (TCP/IP and Macintosh)

Vail (TCP/IP, TAPR/9600, IP Coordinator for East/Central Massachusetts subnet)

Van Peurse (Savant and Macintosh)

MEDIA (PUBLICATION/WRITING/BROADCASTING)

Battles (QST)

Bellville (First Contact Newsletter)

Bloom (QEX)

Coletti, et al (Newsline)

Lau (QST/QEX)

Lloyd (QRZ! Ham Radio CDROM)

Moore (Co-Host, Ham Radio and More)

PART-15 BROADCASTING

Ornitz

POWER SUPPLIES

Myers
Sefranek
Stuart

PRODUCT INFO/FEEDBACK

Appell (Alinco and Yaesu)

Freeman, M and Shirley (Advanced Computer Controls - ACC)

Paperman (Manuals, Service Information, and Literature)

Wier (ICOM)

Information, and Literature)
Rymell (Electronics and Computer
Service Work)
Salnick
Salyzyn
Sefranek (including Power Supplies
and Amplifiers)
Standerfer
Stockton
Taylor
Tescher
Witte (Instrumentation)

QRP (LOW POWER)

Billson
Halbert (HF)
Harris
Sargent (VHF)
Stockton
Turner (including Ten-Tec
Argonaut)
Ehrlich, et al (Mailing List)
Zurn

FREQUENTLY ASKED QUESTIONS (FAQ's)

Bloom (ARRL E-mail and Info Server)
Bowen (Supplemental FTP Archives,
Internet Callbook Server)
Cheeseman (Australia)
Ehrlich (World-Wide Web)
Hill (Antennas)
Holmstead (Satellites/Space)
Jahnke (VE Exams Scheduled)
Kluft (General)
Salyzyn (Radio Amateurs on Usenet,
rec.radio.info Moderator)
Stader (Macintosh Amateur Radio
Software)
Turvey (United Kingdom)
Woods (Mail Order Electronics)
Yee (Online Repeater Directory)

RADIO FREQUENCY INTERFERENCE (RFI)

Elmore
Graham, P (including PC's)
Hare (including Automotive and
Telephone)
Myers
Stockton
Witte

HANDICAPPED OPERATING

Billson
Doane
Knapp, et al

HIGH FREQUENCY (HF)/ CONTESTING/DX

Battles
Brubaker
Chilton
Elmore
Fyodorov
Hill (Mobile)
Knapp, et al

RECIPROCAL LICENSING/FOREIGN OPERATION

Andrews (New Zealand)
Flaherty (South Pacific)
Fyodorov (Russia)
Levine (Australia and Japan)
Salmon
Salyzyn (Canada)
Stockton (UK)
Zurn (Italy and Germany)

REPEATERS

Battles
Chilton
De Armond
DePollo (VHF/UHF)
Graham, P (including 1.2 Ghz)
Keller (220 Mhz)
Knapp, et al
Schallehn (VHF/UHF)
Witte

SATELLITES

Kulyov
Nerenberg (DX Mailing List)
Rosenfeld (including practical
QSLing tips)
Salmon (including DXpeditions)
Salnick
Silva
Squicciarini
Tidd (DXCC Databases)
Zurn

HOME BREWING/DO-IT-YOURSELF

Billson (6809 uP)
Bloom (including DSP)
Carruth (Digital Design,
Software)
Chilton
De Armond
DePolo (including VHF/UHF
design and construction)
Edwards (including DSP)
Fyodorov (including computers)
Halbert (QRP)
Harris
Keys (Junk Box projects)
Kohnen (Tubes)
Kulyov
Lau (Transverters, VHF/UHF,
Filters, repeatable projects)
Myers (Transmission Lines,
Analog and Digital Design)
Moore, T (Junk Box projects)
Rymell (Electronics and Computers,
Low-Cost projects)
Salyzyn
Sayer (Class-C Bipolar Amplifiers
and Phased-Lock-Loop Circuits)
Silva (Analog, Digital, Tubes,
Semiconductors, RF, Finding
Parts)
Stine (Tube Amplifiers,
Receivers, and Exciters)
Stockton (including QRP)
Stuart (Batteries and Power
Supplies)
Taylor (Tubes and Amplifiers)
Tescher

Bass (including low-cost, QRP
Microsat stations)
Feeney
Flaherty (including OSCAR)
Williamson (InstantTrack, OrbitDRV,
AMSAT Services)

SEMINARS/LECTURES

Humphries
Redding
Stuart (Batteries and Power
Supplies)

TANDY COLOR COMPUTER AND OS-9

Billson

TELEVISION, FAST-SCAN (ATV)

Chilton
Feeney
Hammill

TELEVISION, SLOW-SCAN (SSTV)

Langner

UNIX

Angus (including SCO Xenix
TCP/IP and Sendmail)
Carruth (System Administration)
Cole (including Linux)
Ehrlich
Freeman, J
Moore, C (including X-Windows)
Sayer (especially SunOS)
Tescher
Van Peurse (HP-UX and System
Administration)

VERY HIGH FREQUENCY (VHF)/ ULTRA HIGH FREQUENCY (UHF)

Battles
Carpenter (6 meters)
DePolo (Weak Signal, Contesting,

van Vliet (including Power
Amplifiers, Low-Noise Amplifiers,
and Mixers for Microwave)

IBM PERSONAL COMPUTER (PC) AND CLONES

Angus
Bono (AutoExam, et al)
Braun
Cole
Ehrlich
Freeman, J (including OS/2 and
ISA bus)
Fyodorov
Keller
Tescher

INTERNET SERVICES

Ehrlich
Schleck

MAIL-SERVERS/ARCHIVES

Bloom (ARRL Info Server)
Bowen (rec.radio.amateur.*
Supplemental Archives)
Deignan (Buckmaster CDRom)
Ehrlich (Boston ARC FTP archive
and WWW Page)
Harding (Ham Server)
Nielsen (TAPR)
Shirley (ACC Equipment)

and Repeaters)
Flaherty (including Amplifiers and
Mailing List)
Graham, P (Commercial Rig
Conversions)
Hamill (including ATV and DX)
Humphries (2m FM)
Jahnke (CW/SSB Contesting and
Weak Signal)
Lau (CW/SSB to 222 Mhz)
Moore, T
Reynolds
Richards (Monitoring)
Sargent (2 and 6 meter AM and
Contesting)
Silva
Witte (including Portable
and Mountaintopping)

VOLUNTEER EXAMINER (VE) PROGRAM

Billson
Carlson (W5YI)
DePolo
Ehrlich, et al (ARRL VEC Mailing
List)
Jahnke (ARRL VEC Manager)
Kohnen (W5YI)
Maia (W5YI VEC)
Reeves
Salmon (Sunnyvale)
Sefranek (ARRL and W5YI)
Sternitzke (W5YI Asst. VEC)

--

73, Paul W. Schleck, KD3FU

pschleck@gonix.com (personal mail)
elmers-request@gonix.com (Elmers List administrivia)

Date: Sat, 1 Oct 94 10:08:00 -0500
From: bob.stanton@exchange.com (Bob Stanton)
Subject: Courtesy In Amateur Radio

From: bob.stanton@exchange.com
To : sefarlow@crl.com
Subj: Re: Courtesy In Amateur Radio

S>I am quickly getting fed up with HF. It seems bandwidth is eaten up by
>nets, contests, or folks just ragchewing on and on and not letting anyone
>else get a word in. I am talking specifically about 7245 and 3870 mHz.
>These folks seem to want to muscle out everyone by using amps when they
>proably don't need them. Don't FCC regulations require use of the minimum
>amount of power to maintain communications?
>A lot of the fun of HF seems to be going away beacuse of numerous nets
>and contests.

All this being done by those fine amateurs with coded
licenses??? I thought the blame for ruining ham radio was the "No-code
Technicians". Maybe I won't get a Technician Plus license, we don't
seem to have problems like this on 2M.

73 all.

de Bob KD4ARD

* QMPro 1.0 94-6871 * Eagles may fly but weasels aren't sucked into jets

Date: 1 Oct 1994 14:04:40 -0400
From: ss@JH.Org (Steve Steinberg)
Subject: FCC forms wireless division

mike@shien.ist.csuohio.edu (mike mayer) writes:

>:
>: "If It's *Wireless*, It's *Radio*"
>:

>True, unless:

>1) You are screaming out your window at your neighbor
> (wireless, using sound waves, with air as your medium).

>2) You are using two tin cans and a string, henceforth no wire,
> thus wireless.

What about infared remotes? What about lasers? Fiber optics?
Or is radio defined as DC to light?

Steve 8-)

>:-)

>Mike

--

ss@jh.org Steve Steinberg Radio Amateur Callsign: KB2RVE

Date: 1 Oct 1994 17:35:16 GMT
From: Henry Wertz <Henry@chop.isca.uiowa.edu>
Subject: Interference from computer causing receive problems

In note <36b3g6\$ng3@kralizec.zeta.org.au>, somlo@kralizec.zeta.org.au (Peter Somlo) writes:

>Shielding a computer is very difficult, but if you could put the whole computer with all its peripherals in a metal box (and rf filter all the leads incl. the power cables), in principle you could do it, but my point is that there is no need to use lead (this is not atomic radiation, but RF), so alum. or copper would do, and the metal used can be very thin (as long as it is several skin depth), i.e. 1/64" would be fine.

>Cheers.

>(PS computers should really be used in screened rooms - mine radiates like hell!)

Get an IBM PC/XT case 8-)... Seriously. Before, I could get one station on my TV, and one *LOCAL* radio station (out of about five) with the computer on. With this case, I can get ABC, NBC, Fox, Iowa Public Television (oh boy...) .. still can't get CBS with it on, but hey, it's like 6 feet away from the computer, and CBS here is channel 2.. everything interferes with those below channel 7 for some reason 8-). On radio, I can get everything I can with the computer off, no noise at all..

Besides, it is really fun to have people go up to your computer say, "Wow, what a piece of sh*t" practically, then turn it on and find out it's like a modern computer 8-). It looks really impressive too 8-).

>Dr Peter I Somlo FIEEE | Motto1: "Every coin has 3 sides - at least"

>Microwave Consultant | Motto2: "Beware of windsurfing - it's addictive"

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Date: 2 Oct 94 03:28:00 GMT
From: ray.hoad@drig.COM (Ray Hoad)
Subject: orbs\$273.2l.amsat

SB KEPS @ AMSAT \$ORBS-273.N
2Line Orbital Elements 273.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM WA5QGD FORT WORTH,TX September 30, 1994
BID: \$ORBS-273.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJJ KKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10

1 14129U 83058B 94271.03742138 -.00000351 00000-0 10000-3 0 3103
2 14129 26.8572 305.7899 6028491 214.5625 84.8801 2.05882968 84903

UO-11

1 14781U 84021B 94268.00144558 .00000063 00000-0 18490-4 0 7333
2 14781 97.7853 278.0514 0011286 316.0016 44.0298 14.69247006564960

RS-10/11

1 18129U 87054A 94268.02843046 .00000024 00000-0 97667-5 0 9605
2 18129 82.9213 255.0378 0013217 103.9971 256.2651 13.72341657363606

AO-13

1 19216U 88051B 94268.85908553 -.00000252 00000-0 10000-4 0 9673
2 19216 57.7254 229.1074 7234287 351.1080 0.8163 2.09723820 48123

FO-20

1 20480U 90013C 94267.85666911 -.00000043 00000-0 -32743-4 0 7289
2 20480 99.0534 40.9163 0541308 113.7310 252.1529 12.83227496216915

AO-21

1 21087U 91006A 94270.45240692 .00000094 00000-0 82657-4 0 5168
2 21087 82.9370 67.0209 0035263 157.2387 203.0290 13.74545468183639

RS-12/13

1 21089U 91007A 94271.56766864 .00000049 00000-0 35584-4 0 7336
2 21089 82.9192 294.7832 0028994 177.7183 182.4109 13.74047129182840

ARSENE

1 22654U 93031B 94262.03583661 -.00000123 00000-0 00000 0 0 2809
2 22654 2.0483 94.8577 2912797 191.9219 161.1305 1.42202795 2536

UO-14

1 20437U 90005B 94267.73275563 -.00000025 00000-0 73156-5 0 330
2 20437 98.5870 351.1405 0010299 260.0414 99.9603 14.29855473243814

AO-16

1 20439U 90005D 94267.78457414 -.00000009 00000-0 13585-4 0 8311
2 20439 98.5958 352.5326 0010595 261.0681 98.9301 14.29909495243836

DO-17

1 20440U 90005E 94267.72918637 -.00000008 00000-0 13802-4 0 8328
2 20440 98.5966 352.8356 0010733 260.0751 99.9213 14.30049404243845

WO-18

1 20441U 90005F 94271.76451361 .00000005 00000-0 18985-4 0 8350
2 20441 98.5960 356.8130 0011169 247.9646 112.0349 14.30023688244423

L0-19

1 20442U 90005G 94270.19646934 .000000021 00000-0 24903-4 0 8309
2 20442 98.5970 355.5485 0011476 252.3414 107.6519 14.30121238244214

U0-22

1 21575U 91050B 94271.75002581 -.000000008 00000-0 11919-4 0 5378
2 21575 98.4270 344.1110 0007774 348.3894 11.7113 14.36932512167958

K0-23

1 22077U 92052B 94271.88179524 -.000000037 00000-0 10000-3 0 4308
2 22077 66.0802 62.8714 0015417 262.7001 97.2266 12.86287673100122

A0-27

1 22825U 93061C 94267.75824516 -.000000007 00000-0 15224-4 0 3297
2 22825 98.6459 342.5288 0008049 282.3616 77.6664 14.27634788 51892

I0-26

1 22826U 93061D 94270.18478472 .000000002 00000-0 18795-4 0 3273
2 22826 98.6423 344.9794 0008520 275.0739 84.9475 14.27740073 52247

K0-25

1 22830U 93061H 94270.17228034 .000000013 00000-0 22445-4 0 3341
2 22830 98.5467 341.1307 0010700 237.2473 122.7684 14.28064200 52252

22828

1 22828U 93061F 94270.24174961 .000000005 00000-0 19779-4 0 3061
2 22828 98.6418 345.0583 0009417 258.9002 101.1119 14.28066941 20349

NOAA-9

1 15427U 84123A 94271.79179281 .000000046 00000-0 48781-4 0 9705
2 15427 99.0384 323.4350 0014404 289.7741 70.1868 14.13645402504891

NOAA-10

1 16969U 86073A 94271.87287141 -.000000000 00000-0 18015-4 0 8704
2 16969 98.5083 277.7167 0014108 29.6093 330.5882 14.24906282417263

MET-2/17

1 18820U 88005A 94271.20567382 .000000045 00000-0 27185-4 0 4100
2 18820 82.5436 186.6382 0015145 254.0416 105.9077 13.84721705336617

MET-3/2

1 19336U 88064A 94267.91426415 .000000051 00000-0 10000-3 0 3284
2 19336 82.5351 253.1054 0017739 17.5351 342.6386 13.16968747296389

NOAA-11

1 19531U 88089A 94271.87847883 .000000016 00000-0 33528-4 0 7886
2 19531 99.1817 263.3774 0011327 198.8816 161.1937 14.13017585309783

MET-2/18

1 19851U 89018A 94271.86552775 .000000030 00000-0 13585-4 0 3294
2 19851 82.5162 61.2547 0013971 302.5227 57.4585 13.84372473282038

MET-3/3

1 20305U 89086A 94270.32270566 .000000044 00000-0 10000-3 0 1549
2 20305 82.5530 199.3561 0008246 50.2543 309.9296 13.04405120236210

MET-2/19

1 20670U 90057A 94267.69635271 -.000000031 00000-0 -41105-4 0 8319
2 20670 82.5462 129.4460 0014456 227.5144 132.4786 13.84180745214385

FY-1/2

1 20788U 90081A 94272.07393375 -.000000027 00000-0 10000-4 0 1193
2 20788 98.8251 288.8720 0016829 85.9279 274.4232 14.01328042208257

MET-2/20

1 20826U 90086A 94268.39573962 .000000043 00000-0 25427-4 0 8400
2 20826 82.5209 66.2456 0014045 122.2702 237.9821 13.83589540201613

MET-3/4

1 21232U 91030A 94267.95954681 .000000050 00000-0 10000-3 0 7388
2 21232 82.5384 99.0681 0012485 301.6610 58.3305 13.16464435164486

NOAA-12

1 21263U 91032A 94271.80747351 .000000079 00000-0 54917-4 0 1973
2 21263 98.6090 297.2691 0012314 299.8832 60.1128 14.22450549175238

MET-3/5

1 21655U 91056A 94271.84562345 .000000051 00000-0 10000-3 0 7448
2 21655 82.5536 43.5279 0012447 302.5971 57.3939 13.16834041150109

MET-2/21

1 22782U 93055A 94268.13360374 .000000058 00000-0 40027-4 0 3397
2 22782 82.5469 127.2493 0022172 309.8933 50.0277 13.83015397 53902

POSAT

1 22829U 93061G 94267.72677565 .000000005 00000-0 19751-4 0 3216
2 22829 98.6432 342.5879 0009344 267.5753 92.4353 14.28041074 51902

MIR

1 16609U 86017A 94271.22973578 .00004416 00000-0 66357-4 0 7736
2 16609 51.6483 30.7759 0002346 71.0697 289.0604 15.57150756492070

HUBBLE

1 20580U 90037B 94269.92257599 .000000339 00000-0 18513-4 0 5399
2 20580 28.4706 302.4460 0006518 72.4139 287.7153 14.90678026 44586

GRO

1 21225U 91027B 94270.59000999 .00001939 00000-0 39127-4 0 1444
2 21225 28.4622 241.0410 0003021 288.8106 71.2173 15.41298504 72750

UARS

1 21701U 91063B 94270.85186363 .00001457 00000-0 14826-3 0 6002
2 21701 56.9851 107.6492 0004424 96.9163 263.2373 14.96485853166309

/EX

End of Info-Hams Digest V94 #1084
